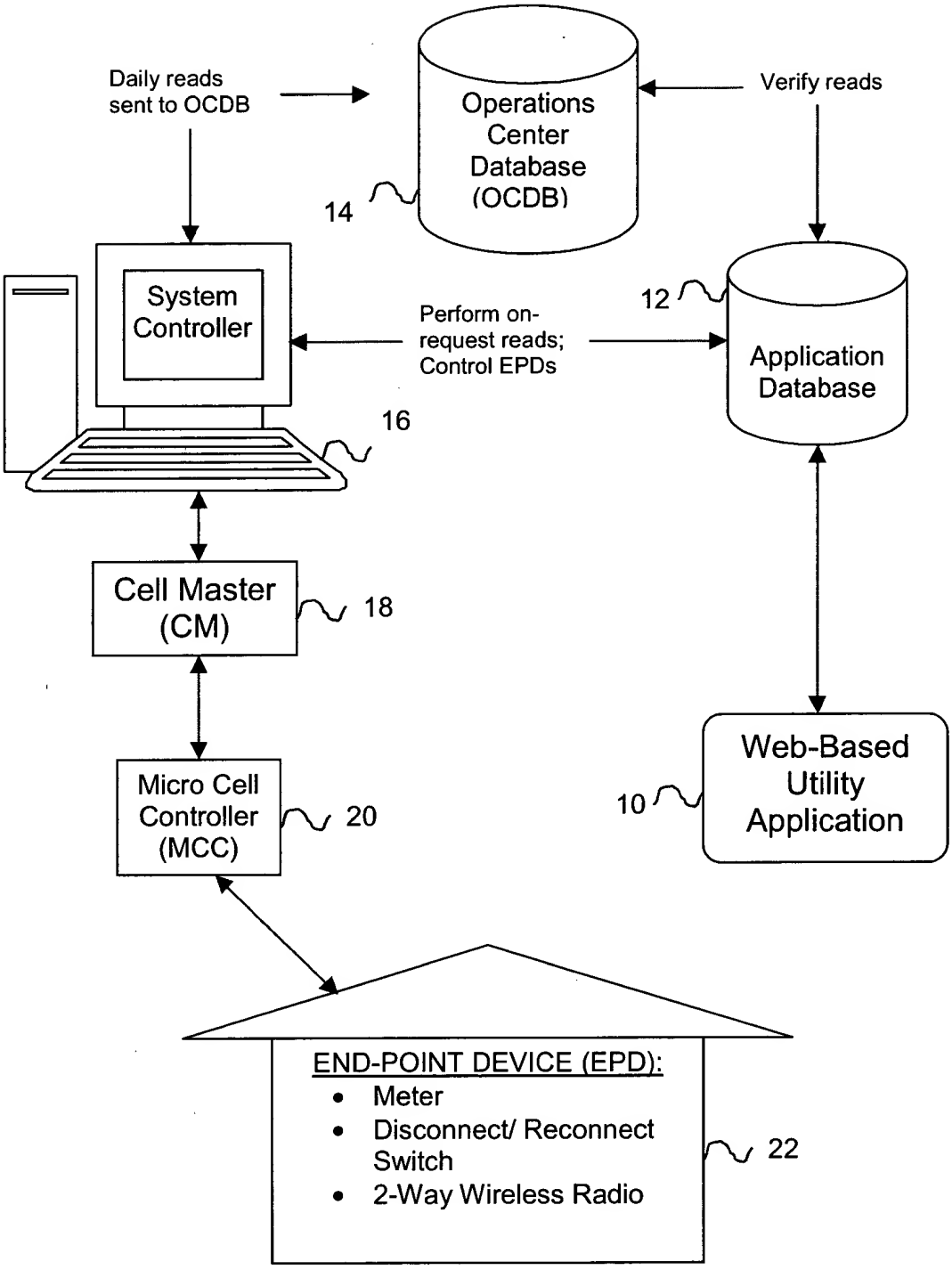
Daily reads sent to OCDB
Operations Center Database (OCDB)
14
Verify reads
System Controller
Perform on-request reads; Control EPDs
12
Application Database
16
Cell Master (CM)
18
Micro Cell Controller (MCC)
20
10
Web-Based Utility Application
END-POINT DEVICE (EPD):
Meter
Disconnect/ Reconnect Switch
2-Way Wireless Radio
22

Figure 1

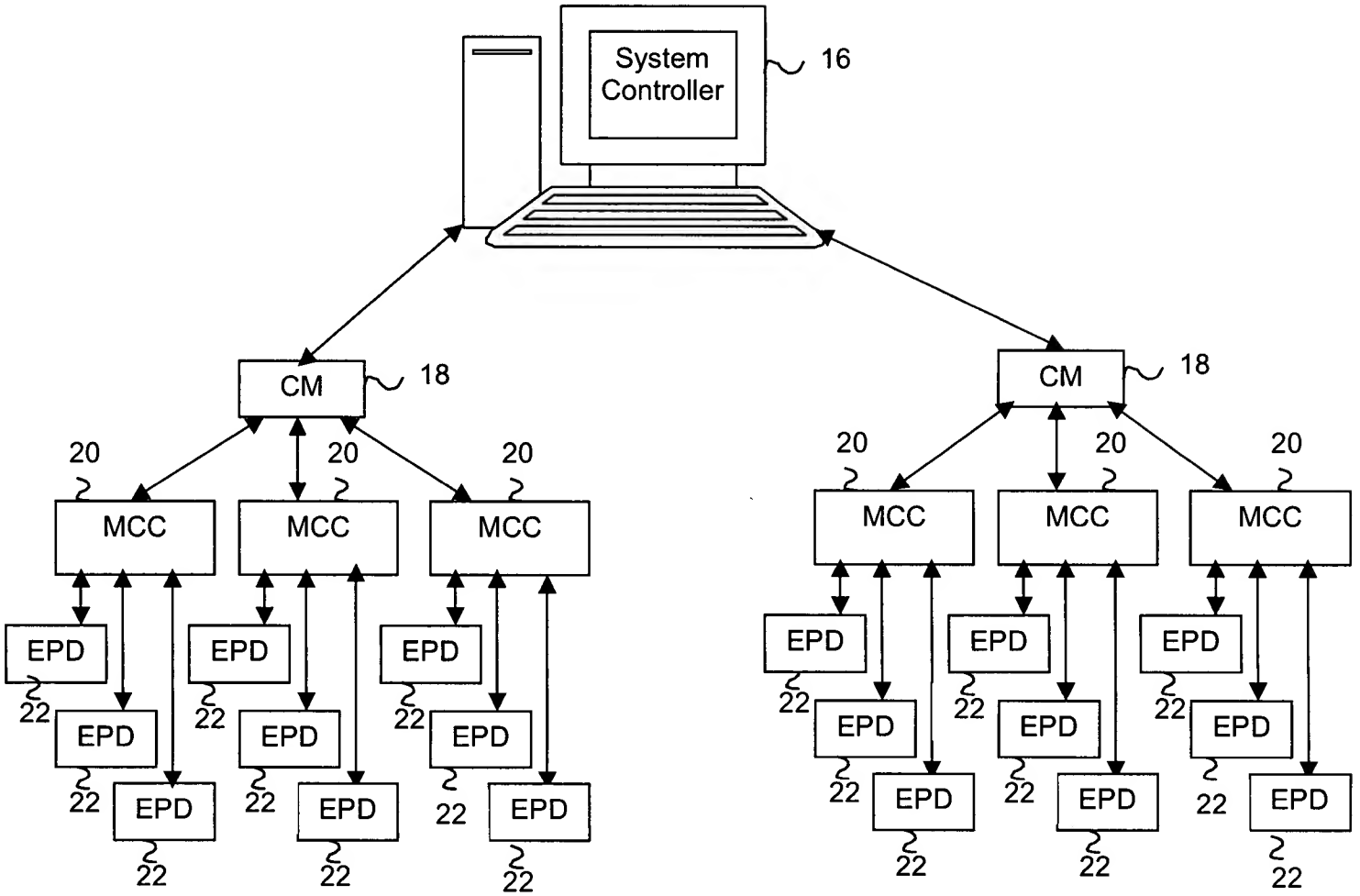
System Controller
16
CM
18
CM
18
20
20
20
20
20
20
MCC
MCC
MCC
MCC
MCC
MCC
EPD
22

Figure 2

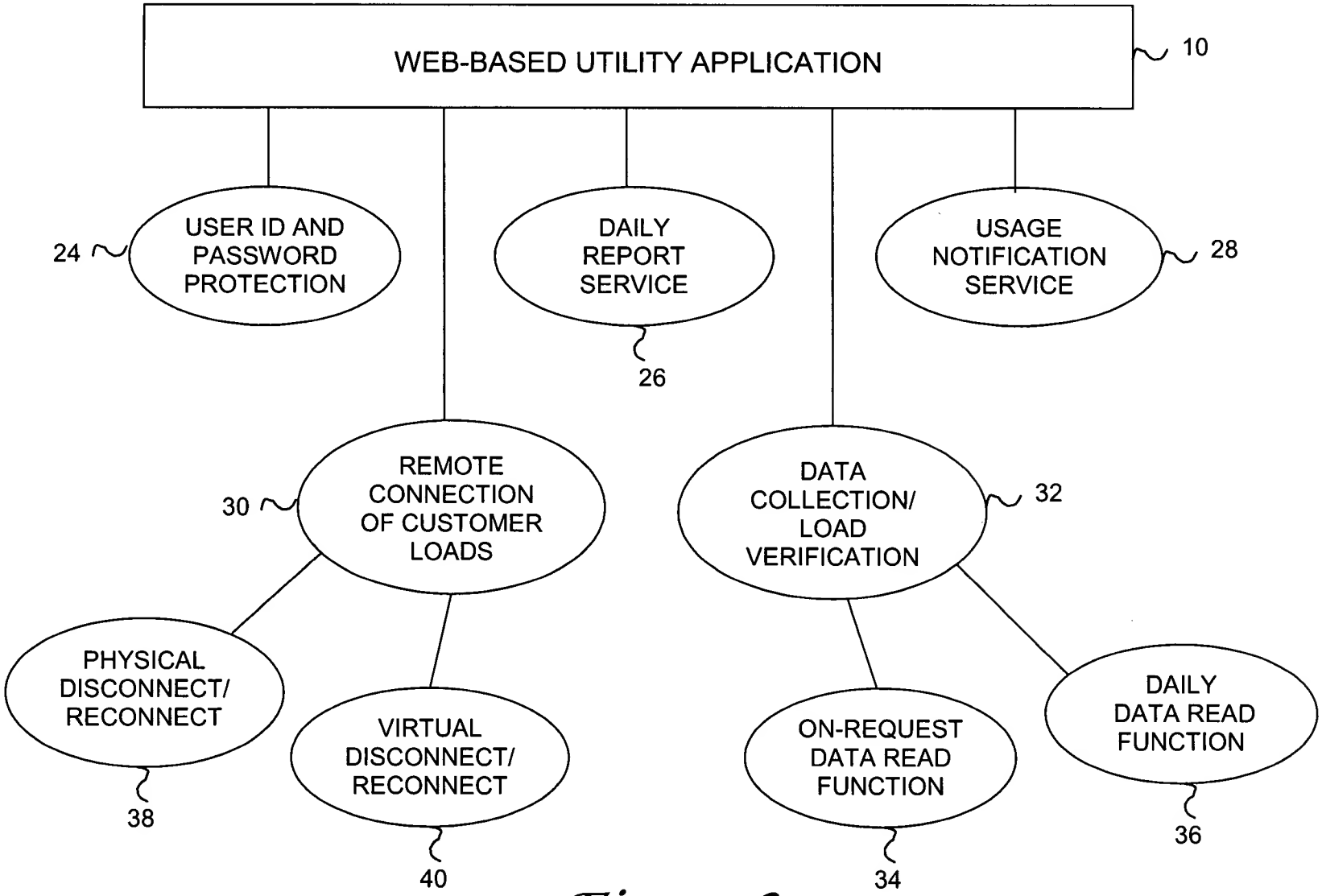
WEB-BASED UTILITY APPLICATION
10
USER ID AND PASSWORD PROTECTION
24
DAILY REPORT SERVICE
26
USAGE NOTIFICATION SERVICE
28
REMOTE CONNECTION OF CUSTOMER LOADS
30
DATA COLLECTION/ LOAD VERIFICATION
32
PHYSICAL DISCONNECT/ RECONNECT
38
VIRTUAL DISCONNECT/ RECONNECT
40
ON-REQUEST DATA READ FUNCTION
34
DAILY DATA READ FUNCTION
36

Figure 3

38'

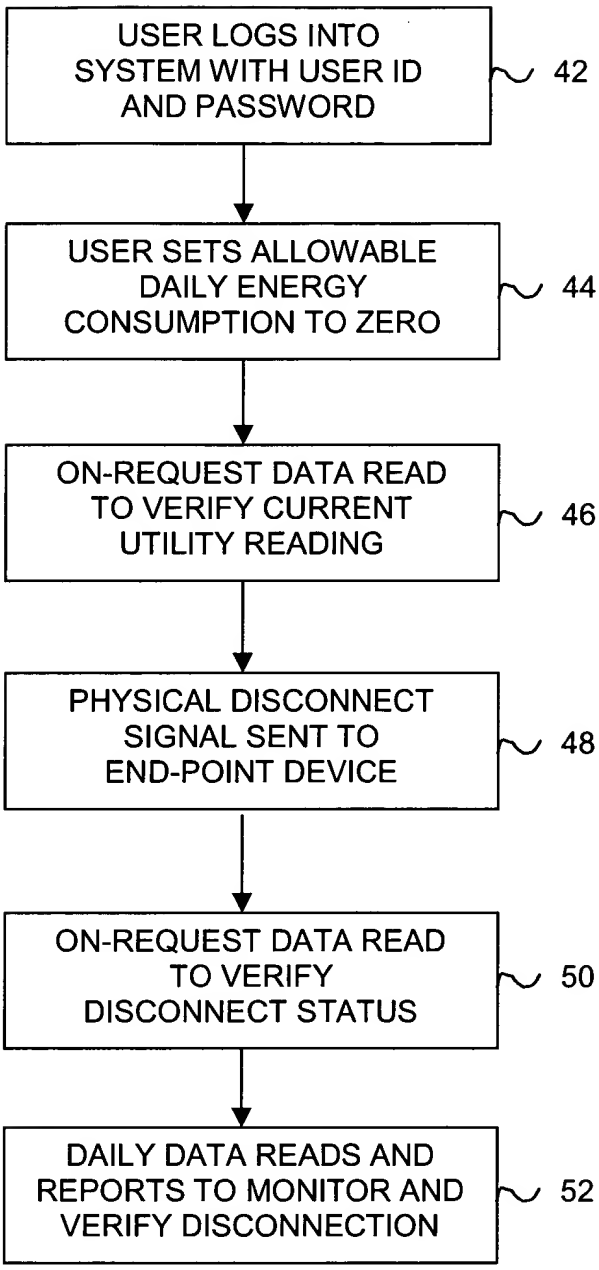
USER LOGS INTO SYSTEM WITH USER ID AND PASSWORD
42
USER SETS ALLOWABLE DAILY ENERGY CONSUMPTION TO ZERO
44
ON-REQUEST DATA READ TO VERIFY CURRENT UTILITY READING
46
PHYSICAL DISCONNECT SIGNAL SENT TO END-POINT DEVICE
48
ON-REQUEST DATA READ TO VERIFY DISCONNECT STATUS
50
DAILY DATA READS AND REPORTS TO MONITOR AND VERIFY DISCONNECTION
52

Figure 4A

38"

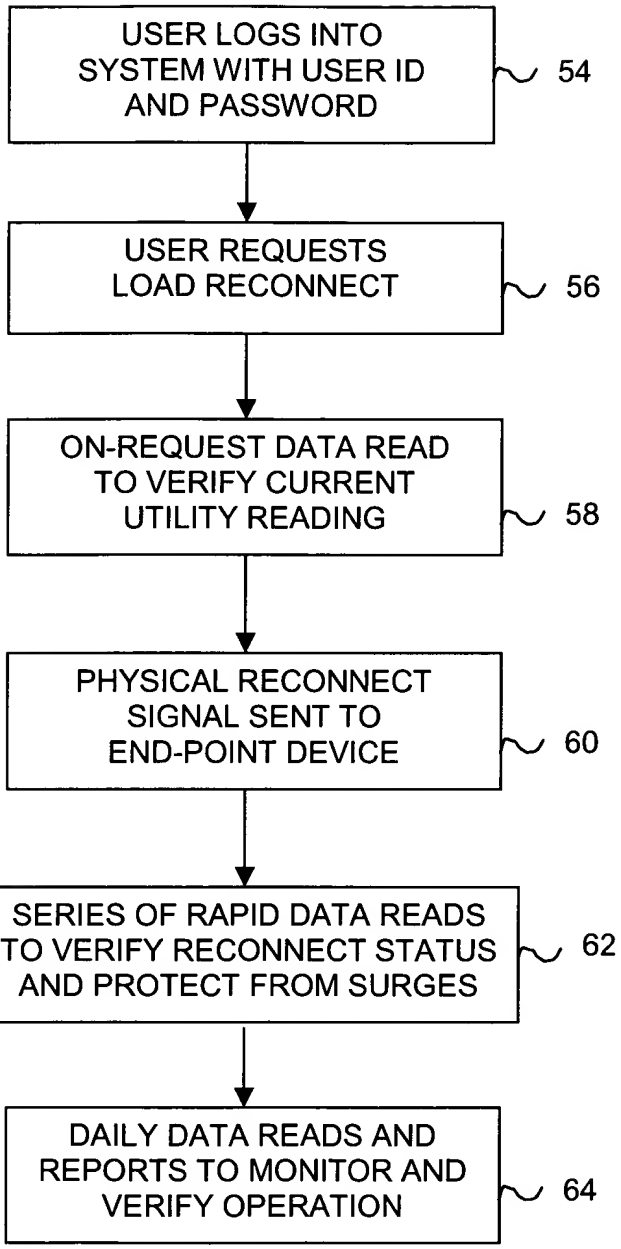
USER LOGS INTO SYSTEM WITH USER ID AND PASSWORD
54
USER REQUESTS LOAD RECONNECT
56
ON-REQUEST DATA READ TO VERIFY CURRENT UTILITY READING
58
PHYSICAL RECONNECT SIGNAL SENT TO END-POINT DEVICE
60
SERIES OF RAPID DATA READS TO VERIFY RECONNECT STATUS AND PROTECT FROM SURGES
62
DAILY DATA READS AND REPORTS TO MONITOR AND VERIFY OPERATION
64

Figure 4B

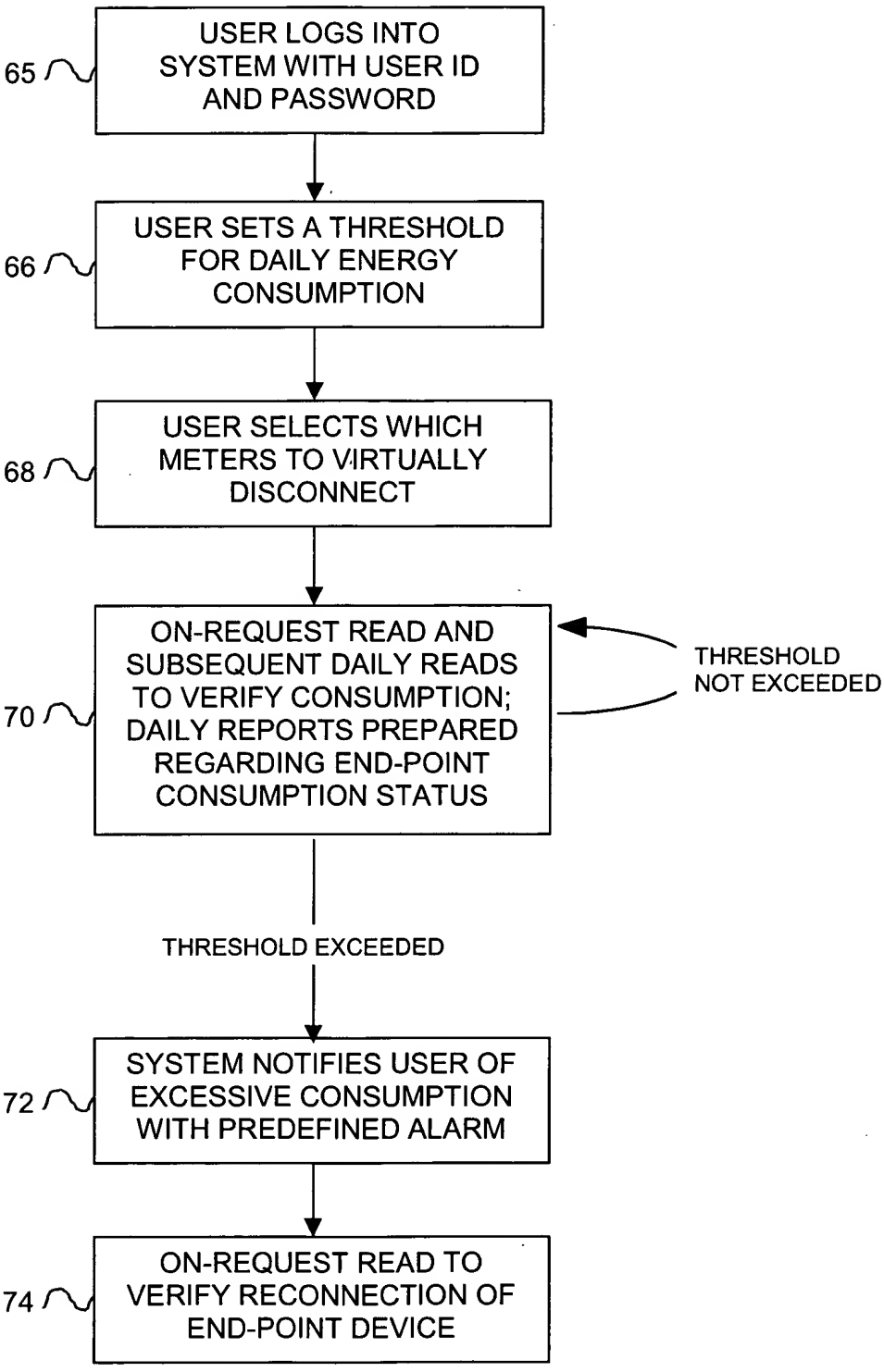
65
USER LOGS INTO SYSTEM WITH USER ID AND PASSWORD
66
USER SETS A THRESHOLD FOR DAILY ENERGY CONSUMPTION
68
USER SELECTS WHICH METERS TO VIRTUALLY DISCONNECT
70
ON-REQUEST READ AND SUBSEQUENT DAILY READS TO VERIFY CONSUMPTION; DAILY REPORTS PREPARED REGARDING END-POINT CONSUMPTION STATUS
THRESHOLD NOT EXCEEDED
THRESHOLD EXCEEDED
72
SYSTEM NOTIFIES USER OF EXCESSIVE CONSUMPTION WITH PREDEFINED ALARM
74
ON-REQUEST READ TO VERIFY RECONNECTION OF END-POINT DEVICE

Figure 5